

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/082,382 02/26/2002		Daniel White Sexton	120840	4580	
6147 75	590 06/12/2006		EXAMINER		
GENERAL E	LECTRIC COMPANY	TRAN, THIEN D			
	KET RM. BLDG. K1-4A5	ART UNIT	PAPER NUMBER		
NISKAYUNA,	NY 12309	2616			

DATE MAILED: 06/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

					∅					
Office Action Summary		Application	n No.	Applicant(s)						
		10/082,38	2	SEXTON ET AL.						
		Examiner		Art Unit						
		Thien D. T	ran	2616						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
A SH WHI(- Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPICHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by stature ply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH I.136(a). In no eve d will apply and wil ute, cause the appli	IIS COMMUNICATIO int, however, may a reply be ti Il expire SIX (6) MONTHS fron ication to become ABANDONI	N. mely filed n the mailing date of this o ED (35 U.S.C. § 133).						
Status										
· -	Responsive to communication(s) filed on <u>17 March 2006</u> . This action is FINAL . 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposit	ion of Claims									
 4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 14-22 is/are allowed. 6) Claim(s) 1-7 and 9-13 is/are rejected. 7) Claim(s) 8 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 										
Applicati	ion Papers									
10)	The specification is objected to by the Examin The drawing(s) filed on is/are: a) ac ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	ccepted or b)[e drawing(s) bo ction is require	e held in abeyance. Seed if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 Cl	` ,					
Priority u	ınder 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
2) D Notic 3) D Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		O-152) .					

Art Unit: 2616

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7, 9-13 are rejected under 35 U.S.C. 102(e) as being participated by Sivaprakasam (US Patent No. 6785513).

Regarding claim 1, Sivaprakasam discloses a method for communicating a message over a radio frequency (RF) communications network having a plurality of RF channels, the method comprising the steps of:

partitioning the message into a plurality of blocks having a predetermined order; converting the plurality of blocks into a plurality of packets (modulating data into packets for transmitting, figure 3, col.5 lines 50-55);

selecting a subset of the plurality of packets (col.5 lines 50-55);

transmitting the selected subset of the plurality of packets over at least one of the plurality of RF channels of the RF communications network (plurality of carriers or subbands, col.5 lines 50-55);

Application/Control Number: 10/082,382

Art Unit: 2616

receiving the selected subset of the plurality of packets transmitted over the at least one of the plurality of RF channels (col.14 lines 35-50);

estimating a quality of the at least one of the plurality of RF channels from at least the received selected subset of the plurality of packets (col.22 lines 5-10); and constructing an estimate of the message using at least the received selected subset of the plurality of packets and the estimated quality of the at least one of the plurality of RF channels (col.12 lines 15-25).

Regarding claim 2, Sivaprakasam discloses that each of the plurality of packets comprises at least a block number field, a block field and an error control field (col.14 lines 55-67).

Regarding claim 3, Sivaprakasam discloses that the error control field comprises a cyclic redundancy code (col.14 lines 55-67).

Regarding claim 4, Sivaprakasam that the error control field comprises forward error correction coding information (col.14 lines 55-67).

Regarding claim 5, Sivaprakasam discloses that the subset of the plurality of packets comprises selecting the subset of the plurality of packets having a predetermined probability of error-free reception (col.15 lines 55-65).

Regarding claim 6, Sivaprakasam discloses that the selected subset of the plurality of packets uses orthogonal frequency division multiplexing (OFDM) communication techniques (col.16 line 35).

Regarding claim 7, Sivaprakasam discloses that the selected subset of the plurality of packets transmits the selected subset of the plurality of packets using

Art Unit: 2616

communication techniques selected from the groups consisting of Bluetooth communications techniques and IEEE standard 802.11 communications techniques (col.4 lines 25-30).

Regarding claim 9, Sivaprakasam discloses that characteristics comprise at least jamming pulse duration and jamming pulse repetition time (figure 16).

Regarding claims 10, 11, Sivaprakasam discloses that comprises processing the received selected subset of the plurality of packets to yield the plurality of blocks of the message (modulating data into packets for transmitting, figure 3, col.5 lines 50-55).

Regarding claims 12, Sivaprakasam discloses that the selected subset of the plurality of packets uses Bluetooth communications techniques (col.4 lines 25-30).

Regarding claims 13, Sivaprakasam discloses that the step of transmitting the selected subset of the plurality of packets uses IEEE standard 802.11 communication techniques (col.4 lines 25-30).

Allowable Subject Matter

- 2. Claims 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 3. Claims 14-22 are allowed.

Application/Control Number: 10/082,382 Page 5

Art Unit: 2616

Response to Arguments

4. Applicant's arguments filed 03/17/2006 have been fully considered but they are not persuasive.

Regarding claim 1, Applicant argues that the US Patent No. 6785513 does not disclose the estimation of a quality of a message. In response to the argument, the limitation "estimation of a quality of a message" is not recited in the claim. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Regarding claim 5, Applicant argues that that the US Patent No. 6785513 does not disclose subset of the plurality of packets having a predetermined probability of error-free reception. However, Examiner respectfully disagrees with the argument because the US Patent No. 6785513 (col.15 lines 55-65) discloses subset of the plurality of packets having probability of error-free reception, (packets having a small percentage of errors, col.15 lines 55-65).

Regarding claims 10, 11 and 17, applicant argues that the US Patent No. 6785513 does not disclose the processing of the received subset of packets. However, Examiner respectfully disagrees with argument because the US Patent No. 6785513 discloses the processing of received subset of packets (processor 100, figure 15, processing received packet data, col.22 lines 28-40).

Conclusion

Application/Control Number: 10/082,382 Page 6

Art Unit: 2616

5. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (571) 272-3156.

The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To, can be reached on (571) 272-7629. Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197.

Patent Examiner

Thien Tran

DORIS H. TO SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600